

Work Order ID 139360

139360

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Wednesday, November 25, 2015 1:20:50 PM

Item ID: D3118-3 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Sign Assembly
 Start Date: 12/28/2015 Start Qty: 4.00 *4* Cust Item ID:
 Required Date: 12/28/2015 Req'd Qty: 4.00 *4* Customer:
 Reference:

Approvals: Process Plan: CL Date: NOV 25 2015 Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3118	E

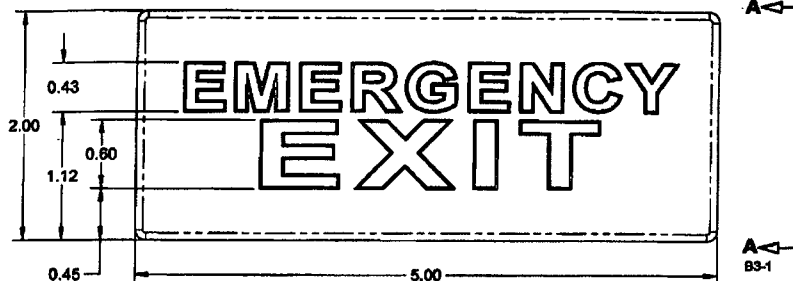
100 PURCHASING 0.00
 100
 Purchasing Memo 0.00
 Purchasing Issue P/O: 30572
 Manufacture as per dwg D3118
 Possible Supplier: SRB TECHNOLOGIES
 Supplier P#: 9004043
 Material release note required
 Sign should be self-luminous to min. brightness of 160 microlamberts

CL NOV 25 2015 4

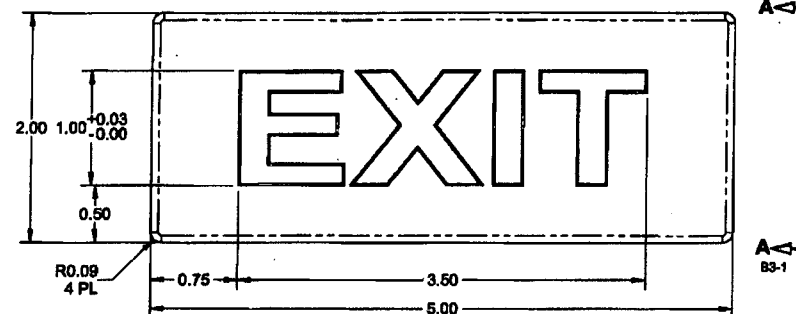
110 Receive & Inspect for Damage & Mat'l Certs 0.00
 110
 Packaging Memo 0.00
 Packaging Ensure Material Release Note is attached

4x SP15-12-22

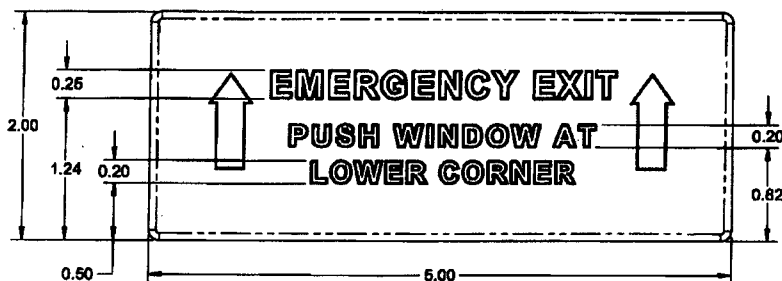
SPECIFICATION CONTROL DRAWING



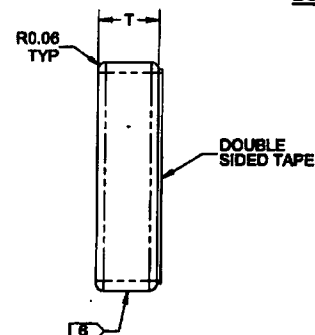
D3118-1 SIGN ASSEMBLY
REPLACES PREMIER P/N 027-57000-01,
BHT P/N 48680-01008-00



D3118-5 SIGN ASSEMBLY



D3118-3 SIGN ASSEMBLY
REPLACES PREMIER P/N 027-57000-03,
BHT P/N 212-072-637-107



VIEW A-A C5-1
C1-1
B5-1

CL 1511125
W/O 139360

RELEASED
2013-08-01
MP

NOTES:

- 1) MATERIAL: POLYCARBONATE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: WITH DART P/N "D3118-X" AND B/N "BX000X" PER DART QSI 044 8.1
- 7) WEIGHT: 0.30 lbs EACH
- 8) POSSIBLE SUPPLIER: SRB TECHNOLOGIES (CANADA), INC.
320-140 BOUNDARY ROAD
PEMBROKE, ONTARIO, K8A 6W5
PHONE: 613-732-0055
FAX: 613-732-0066
- 9) SEE TABLE FOR SUPPLIER PROCUREMENT P/N'S
- 10) SIGNS SHOULD BE A RED BACKGROUND, CLEAR LETTERING WITH WHITE BORDER AROUND EACH LETTER
- 11) SIGNS SHOULD BE SELF-LUMINOUS TO MINIMUM BRIGHTNESS OF 160 MICROLAMBERTS

DART PART NUMBER	SUPPLIER PART NUMBER	THICKNESS
D3118-1	9004030	0.52
D3118-3	9004043	0.52
D3118-5	9004001	0.66

E	REVISE SUPPLIER AND SUPPLIER PART NUMBERS	SFM	13.07.16
D	UPDATED TO COMPLY WITH QSI 043: ADDED SUPPLIER P/N PROCUREMENT CHART (ZN 04-1), REF. PAR11-127	MB	11.11.02
C	ADD D3118-5	RF	06.02.22
B	ADD MINIMUM BRIGHTNESS = 160 MICROLAMBERTS	RF	04.05.05
A	NEW ISSUE	RF	02.04.15
REV.	DESCRIPTION	BY	DATE
DESIGN	DESIGNED BY	DESIGNED BY	DESIGNED BY
DRAWN	DRAWN BY	DRAWN BY	DRAWN BY
CHECKED	CHECKED BY	CHECKED BY	CHECKED BY
MFG. APPR.	MFG. APPR. BY	MFG. APPR. BY	MFG. APPR. BY
APPROVED	APPROVED BY	APPROVED BY	APPROVED BY
DE APPR.	DE APPR. BY	DE APPR. BY	DE APPR. BY
DATE	DATE	DATE	DATE

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D3118** REV. E
TITLE **SIGN ASSEMBLY** SHEET 1 OF 1
SCALE NTS

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO30572

Purchase Order Date 11/25/2015

PO Print Date 11/25/2015

Page Number 1 of 1

Order From :

VU-ROY001

ROYAL BANK VISA
XXX

XX, X

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

COD

Currency

USD

FOB

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	9004043 AS PER DWG D3118 REV. E B139360	Sign Assembly	12/28/2015 Yes 12/28/2015		4.00 Each	\$772.24	\$3,088.96

815-12-22

Line Total:

\$3,088.96

2	71401-45	PROCUREMENT QUALITY CLAUSES	12/28/2015 No 12/28/2015		12.00	\$0.00	\$0.00
Quality Procurement Clauses A005 RIGHT OF ENTRY A016 PERSONNEL QUALIFICATION A026 CERTIFICATE OF MATERIAL CONFORMANCE A041 QUALITY MANAGEMENT SYSTEM A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS							

Line Total:

\$0.00

PO Total:

\$3,088.96

PO Instructions: SRB TECHNOLOGIES

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

1

Change Date:

11/25/2015

SRB TECHNOLOGIES (CANADA) INCORPORATED

SHIPMENT PACKING SLIP AND MANIFEST

DATE:	December 21, 2015
WAYBILL #:	Fedex: 6558 2169 3603
DESTINATION:	Dart Aerospace Ltd; Hawkesbury, ON, Canada

[illegible]**TYPE OF SHIPMENT:**

OTHER (SPECIFY):

NO. OF PACKAGES:		1	PACKED BY:		Lynn Young - Shipper	
TOTAL ACTIVITY:		17.00	Ci.	ATTN: Chantal Lavoie		
DIM (in):	9 X 9 X 11			www.betalight.com		SHIPMENT WEIGHT (lbs.)



Canadian Nuclear Safety Commission
Radiation Safety Data Sheet

This data sheet presents information on radioisotopes only.
For information on chemical compounds incorporating this radionuclide, see the relevant Material Safety Data Sheet.

Part 1 - RADIOACTIVE MATERIAL IDENTIFICATION

Chemical Symbol:	H	Common Names:	Tritium
Atomic Weight:	3	Atomic Number:	1

Part 2 - RADIATION CHARACTERISTICS

Physical Half-Life:	12.35 years
Unconditional Clearance Levels:	Activity Concentration (Bq/g) 1×10^2
CNSC Exemption Quantity:	Activity Concentration (Bq/g) 1×10^6 Activity (Bq) 1×10^9

Principal Emissions	Average Energy of Most Abundant Emission (MeV)	Maximum Energy of Most Abundant Emission (MeV)	Gamma-Ray Dose Rate at 1m Distance (mSv/h per GBq)	Shielding Information ¹
Neutrons	-	-	-	-
Gamma & X-ray	-	-	-	-
Beta* & Electron	0.0057	0.0186	-	Total absorption: <0.1 mm glass or <0.1 mm plastic
Alpha	-	-	-	-

* Where beta radiation is present, bremsstrahlung radiation will be produced. Shielding for bremsstrahlung radiation must be considered.

¹Delacroix, D. et al, Radionuclide and Radiation Protection Data Handbook 2002.

Progeny	
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Part 3 - DETECTION AND MEASUREMENT

Method of Detection:

Wipes counted by a beta probe (e.g., wipes counted by a liquid scintillation counter)

Dosimetry:

External: TLD (whole body & skin) _____ Extremity _____ Neutron _____
Internal: Whole body _____ Thyroid _____ Urine analysis ☒ Other (specify) _____

Part 4 - PREVENTATIVE MEASURES

Tritium is not a radiation hazard unless it enters the body. Once in the body, tritiated water is uniformly distributed in the body water and can then expose tissue. The dose from inhaled elemental tritium gas is 10,000 times less than that from tritiated water. Tritiated water can be absorbed through the surface of skin, leading to an internal exposure. Gaseous tritium is a fire and explosion hazard when exposed to heat or flame and can react vigorously with oxidizing materials.

Recommended protective clothing: Lab coat and PVC gloves (0.5 mm thick) are preferred because of this material's low permeability to tritiated water. Many tritium compounds readily penetrate gloves and skin. Handle these compounds remotely, wear two pairs of gloves and change the outer layer at least every twenty minutes. Plastic aprons provide added protection especially against tritiated water. Plastic suits may be necessary for work at TBq levels or in an atmosphere contaminated with tritiated water.

Handle tritiated water, gases and volatile liquids in ventilated enclosures. Use glass containers to store tritium compounds because tritiated water and tritiated organic solvents will pass through plastic. Use disposable absorbent liners on trays.

Consult CNSC license for requirements concerning engineering controls, protective equipment, and special storage requirements.

Part 5 - ANNUAL LIMIT ON INTAKE

	Ingestion	Inhalation	
Compound Type	Tritiated water	Tritiated water	Elemental tritium gas
Annual Limit on Intake (Bq)	1.0×10^9	1×10^9	1.0×10^{13}

EMERGENCY PROCEDURES

The following is a guide for first responders. The following actions, including remediation, should be carried out by qualified individuals. In cases where life threatening injury has resulted, **first** treat the injury, **second** deal with personal decontamination. In the case of an emergency, the Radiation Safety Officer should be contacted as soon as practicable.

Personal Decontamination Techniques

- Wash well with soap and water and monitor skin
- Do Not abrade skin, only blot dry
- Decontamination of clothing and surfaces are covered under operating and emergency procedures

Spill and Leak Control

- Alert everyone in the area
- Clear area
- Summon Aid

Emergency Protective Equipment, Minimum Requirements

- Gloves
- Footwear Covers
- Safety Glasses
- Outer layer or easily removed protective clothing
- Suitable respirator selected

Canadian Nuclear Safety Commission
P.O. Box 1046, Station B
Ottawa, Canada
K1P 5S9

Tel: (613) 995-5894 Fax: (613) 995-5086
24 Hour Emergency Hotline: (613) 995-0479

Revision number: 1

Date of revision: 19 September 2011